

# ВЕРТИКАЛЬНЫЕ МНОГОСТУПЕНЧАТЫЕ НАСОСЫ СЕРИЯ ТНК



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# Multistage immersion pumps type THK: Compact, efficient and extremely powerful!

## Advantages

- Replace coolant pumps according to DIN EN 12157
- Materials resistant to abrasion
- Individually adapted to the performance curves
- Materials resistant to chemicals
- Individual designs through mechanical assembly technique
- Immersion depth up to 430 mm
- Vertical tank installation
- Easy accessibility for maintenance and service

## Fields of application

- The pumps are designed for
- Clean and slightly polluted liquids
  - Neutral or aggressive media, such as acids, alkalines, solvents, coolants, lubricants, dielectrics etc.
  - Surface technique washing, cleaning, degreasing, phosphating, pickling
  - Machine-tool industry
  - Environmental technology filtration and recycling technology, reversal osmosis, ultra filtration
  - Commercial dish-washers and bottle cleaning machines
  - Textile industry washing, dry cleaning, bleaching, dyeing of textiles

## Construction

- ◆ Multistage close coupled
- ◆ Shaft sealing by maintenance-free mechanical seal
- ◆ Mechanical seal resistant against chemicals and abrasion
- ◆ Closed radial impellers
- ◆ For tank installation according to DIN EN 12157
- ◆ No shaft support within the pump necessary
- ◆ Pump connection with outer thread

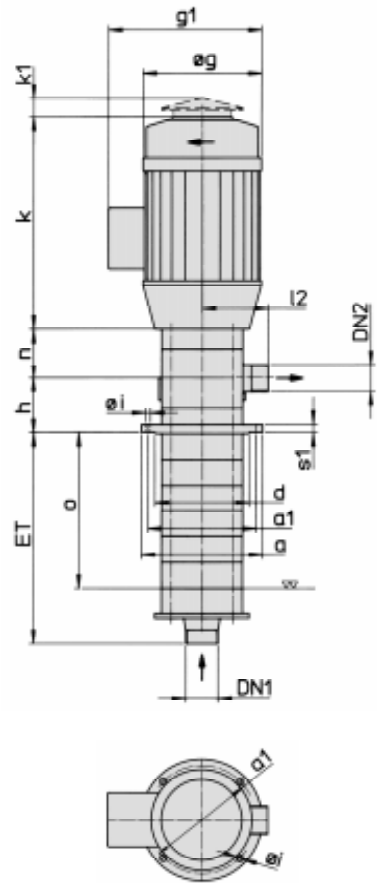
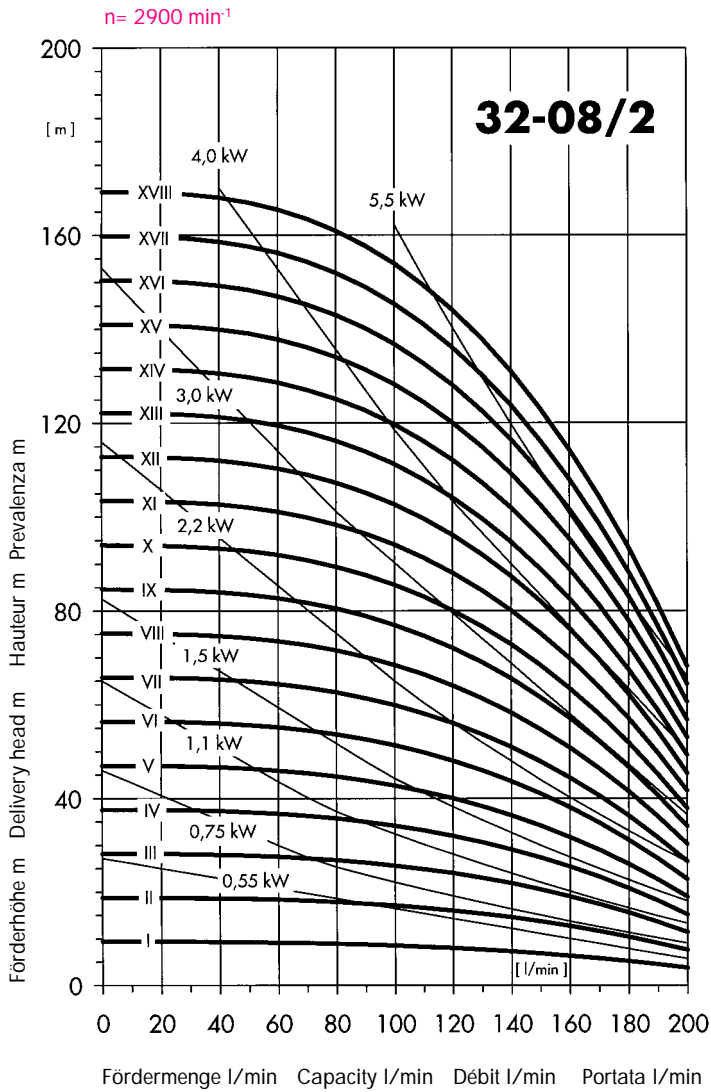
## Standard Motors

- Three-phase induction squirrel cage motor, surface-cooled according to DIN IEC 38 and DIN ISO 38
  - Protection IP 54
  - Construction IM V1
  - Isolation F
  - Coolant temperature: 40°C
  - Rotation: ca. 2900 1/min
  - Winding: up to 3 kW:  
230 V ± 10 %  
400 V ± 10 %  
from 4 kW:  
400 V ± 10 %  
690 V ± 10 %
- The motors are designed for continuous operation, with grease lubricated, deep-grooved ball bearings

## Performance

- ▲ Materials for temperatures  
max. 60°C: POM  
max. 80°C: PPS  
max. 120°C: Cast iron
- ▲ Delivery up to 200 l/min
- ▲ Delivery head up to 110 m

# Performance curves



Stufen stages étages stadi	Motor motor moteur motori kW	ET <sup>1</sup> mm	o <sup>1</sup> mm	Gewicht <sup>1</sup> weight <sup>1</sup> poids <sup>1</sup> Peso <sup>1</sup> kg
I	0,37	200	115	20
	0,55	200	115	21
II	0,37	200	115	21
	0,55	200	115	22
	0,75	200	115	23
	1,10	200	115	25
III	0,55	200	115	23
	0,75	200	115	24
	1,10	200	115	25
IV	1,50	200	115	28
	0,75	200	115	25
	1,10	200	115	26
V	1,50	200	115	29
	1,10	200	115	26
	1,50	200	115	29
VI	2,20	200	115	32
	1,10	200	115	27
	1,50	200	115	30
VII	2,20	200	115	33
	1,50	315	230	30
	2,20	315	230	33
VIII	3,00	315	230	38
	1,50	315	230	31
	2,20	315	230	34
IX	3,00	315	230	39
	1,50	315	230	31
	2,20	315	230	34
X	3,00	315	230	39
	4,00	315	230	44
	2,20	430	345	35
XI	3,00	430	345	40
	4,00	430	345	45
	2,20	430	345	35
XII	3,00	430	345	40
	4,00	430	345	45
	2,20	430	345	36
	3,00	430	345	41
	4,00	430	345	46
	5,50	430	345	55

DN1	DN2	a	a1	d	h
		mm	mm	mm	mm
G3/2"	G5/4"	180	160	140	82

DN1	DN2	i	l2	n	s1
		mm	mm	mm	mm
G3/2"	G5/4"	7	98	74	12

## Motor data

Leistung Output Puissance Potenza	Polzahl Poles Poles Poli	Baugröße frame size Hauteur d'axe Grandezza costruzione	Maße in mm Dimensions in mm Dimensions en mm Dimensioni in mm			Nennstrom Rated current Courant nominal Corrente nominale	Gewicht <sup>1</sup> Weight <sup>1</sup> Poids <sup>1</sup> Peso <sup>1</sup>
[kW]			g	g1	k	[A] 400 V	[kg]
0,37	2	A63	125	155	208	1,05	6
0,55	2	A63	125	155	208	1,5	7,8
0,75	2	R71	143	186	218	2	9,5
1,10	2	A80	158	201	252	2,5	12
1,50	2	A80	158	201	252	3,3	14
2,20	2	A90L	176	227	315	4,8	18
3,00	2	A90L	176	227	315	6,4	20
4,00	2	A100L	196	252	337	9,1	25
5,50	2	A112M	220	280	356	11,5	35

## Materials

Bezeichnung	Description	Désignation	Descrizione	M1	M2	M3	M5
Druckgehäuse	Pressure housing	Carter de pression	Carcassa di pressione	PPS	PPS	GG	GG
Stufenmantel	Stage casing	Revêtement d'étage	Rivestimento stadi	POM	PPS	GG	PPS
Lauftrad	Impeller	Turbine	Girante	POM	PPS	GG	PPS
Leiträder	Diffuser	Contre turbine	Distributori	POM	PPS	GG	PPS
Flansch	Cover Plate	Plaque d'appui	Flangia	PP	PP	GG	PP
Welle	Shaft	Arbre	Albero	1.4021	1.4571	1.4021	1.4021
Gleitringdichtung	Mechanical seal	Garniture mécanique	Tenuta meccanica	SIC/SIC	SIC/SIC	SIC/SIC	SIC/CIC



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